



Lake Restoration in Iowa

An On-going Success Story

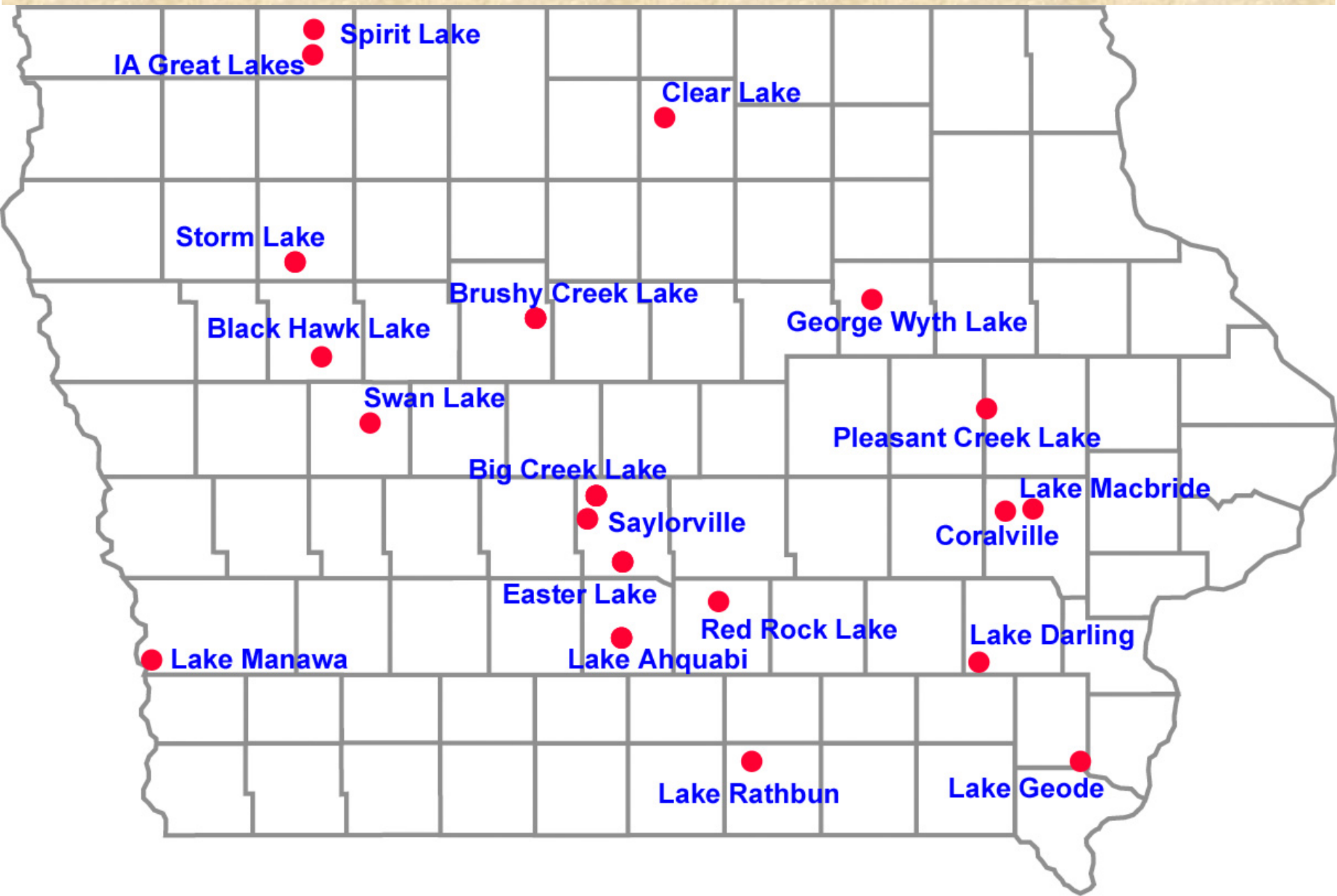


Program Focused on Iowa's Significant, Publicly-owned lakes

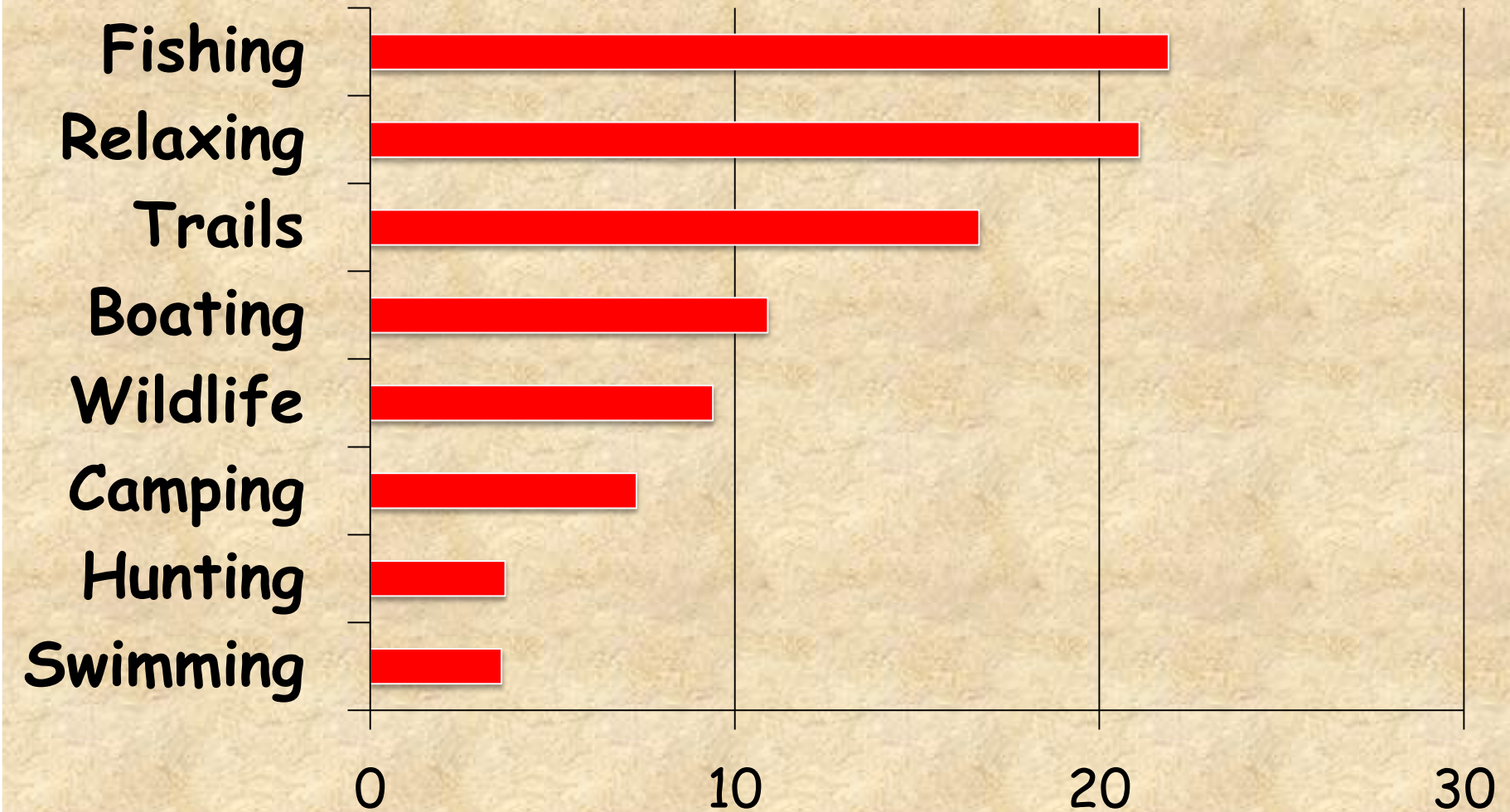
- Multi-use, public, recreational resources
- Surface water area of at least 10 acres
- Watershed to lake surface area ratio of less than 200:1



Top 20 Most Visited Lakes



Most Popular Activities at Iowa Lakes



Process and Criteria

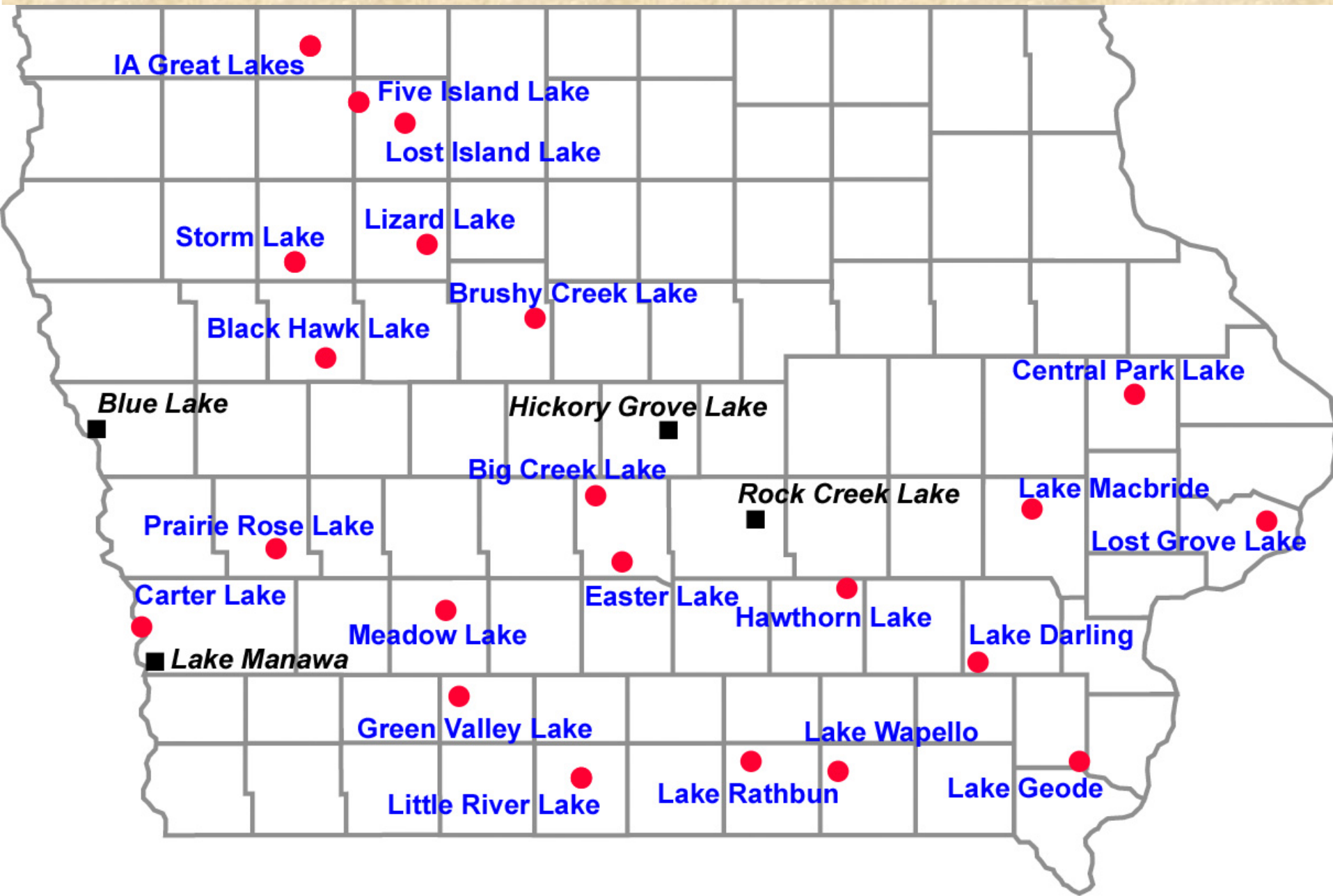
- Lake and watershed assessment and restoration plan
- Watershed controls established before lake restoration begins
- Dredging undertaken to achieve water quality targets

Program Goals

- Cost effective, positive return for Iowa
- Local commitment to lake / watershed protection
- Significant improvement to water clarity, safety and quality of Iowa lakes



Projects in progress



Community Involvement - Prairie Rose Lake (Shelby)

Lake is drained to start
shoreline / habitat work



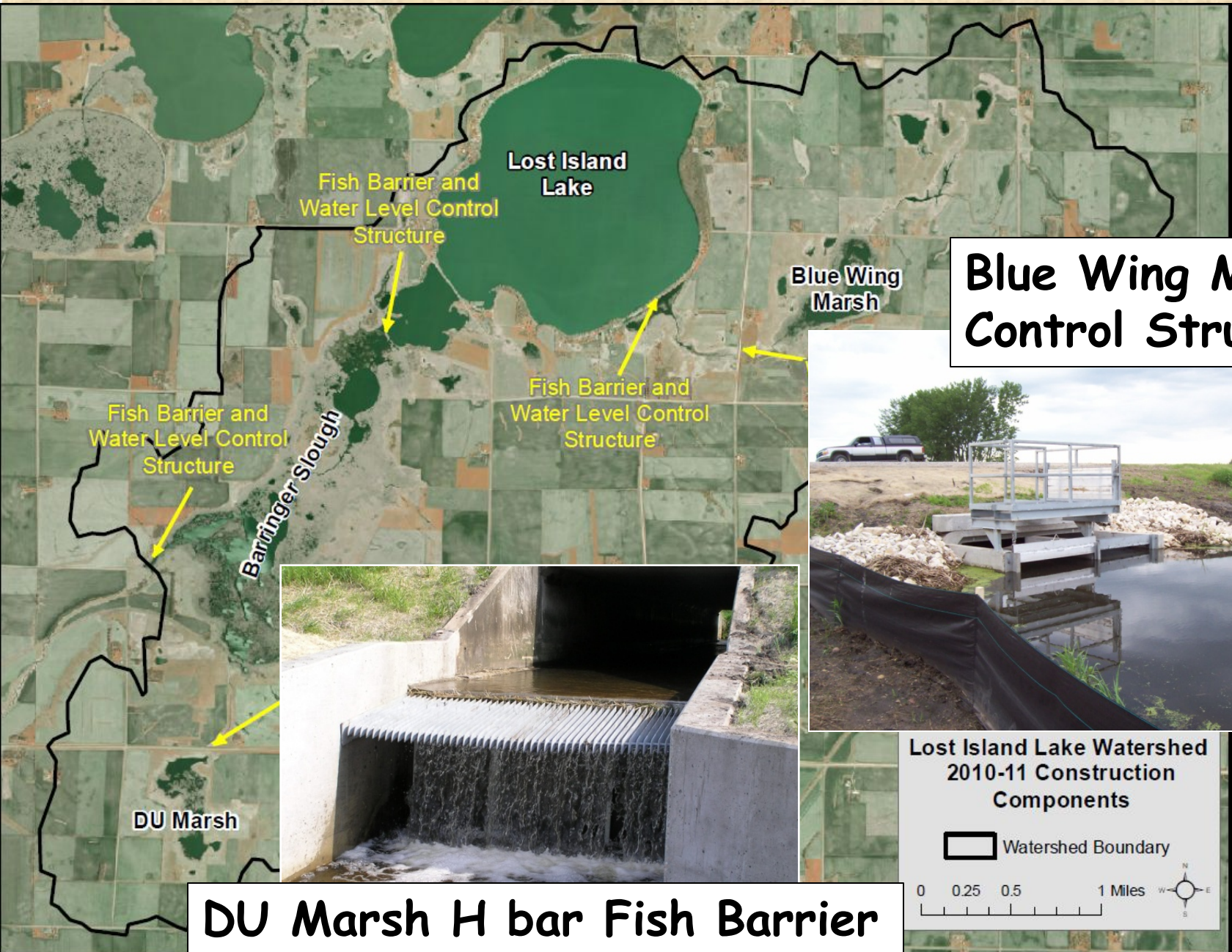
Partnerships - Carter Lake (Pottawattamie)

Whole-lake fish renovation



Alum application

Innovation - Lost Island Lake (Palo Alto)



Blue Wing Marsh Control Structure



DU Marsh H bar Fish Barrier

**Lost Island Lake Watershed
2010-11 Construction
Components**

Watershed Boundary

0 0.25 0.5 1 Miles



Improving our State Parks - Lake Darling (Washington)

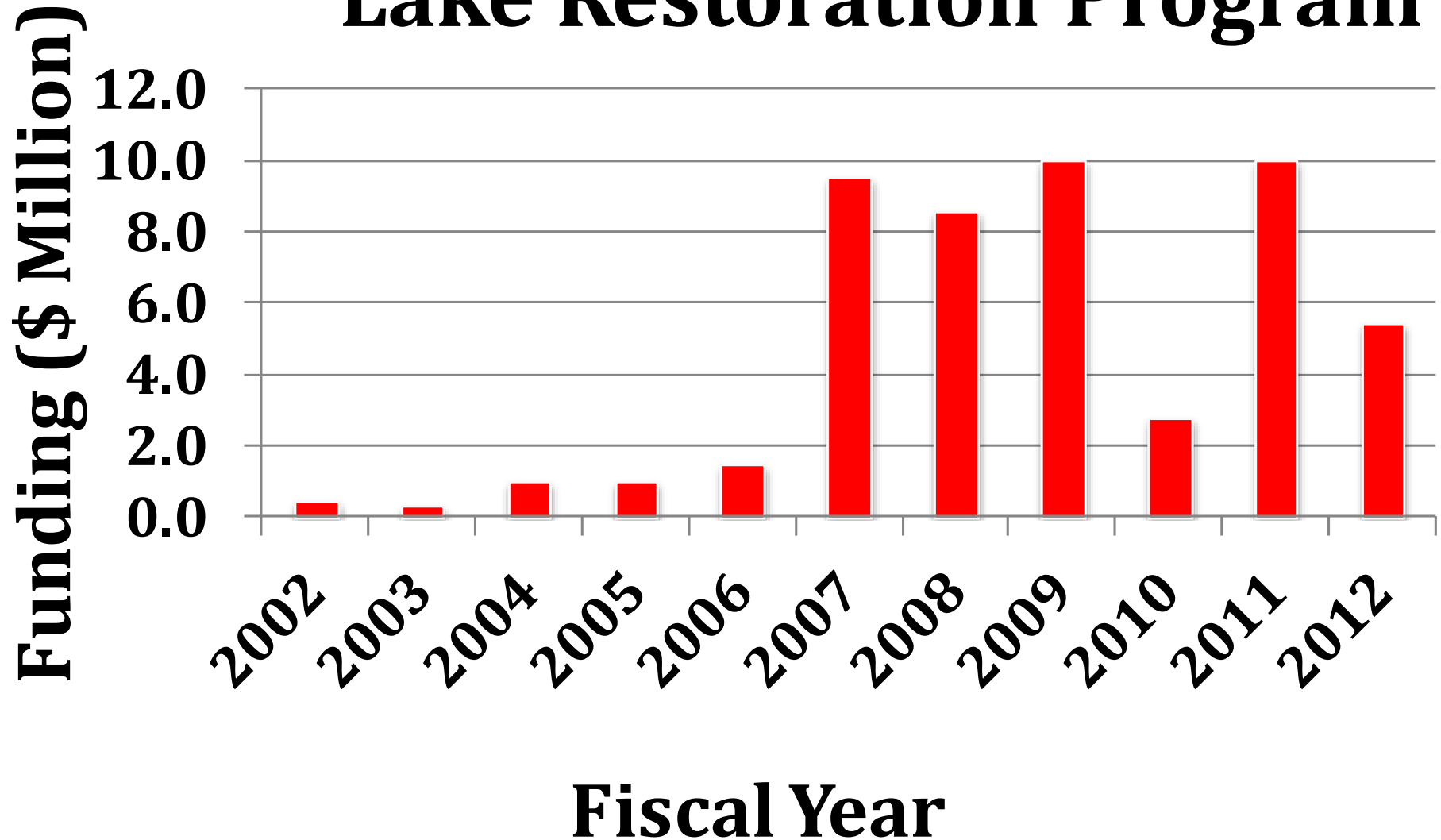


Public-use Lodge



View of the new dam

Lake Restoration Program



LRP Budget as of FY12 (11/30/11)

Available Balance \$12,203,288

In Progress (contracted) \$9,526,684

In Progress (contracted by 6/15/12)
(Estimated Cost) (\$2,671,344)

Carry Forward of Un-obligated funds to FY13
\$5,260



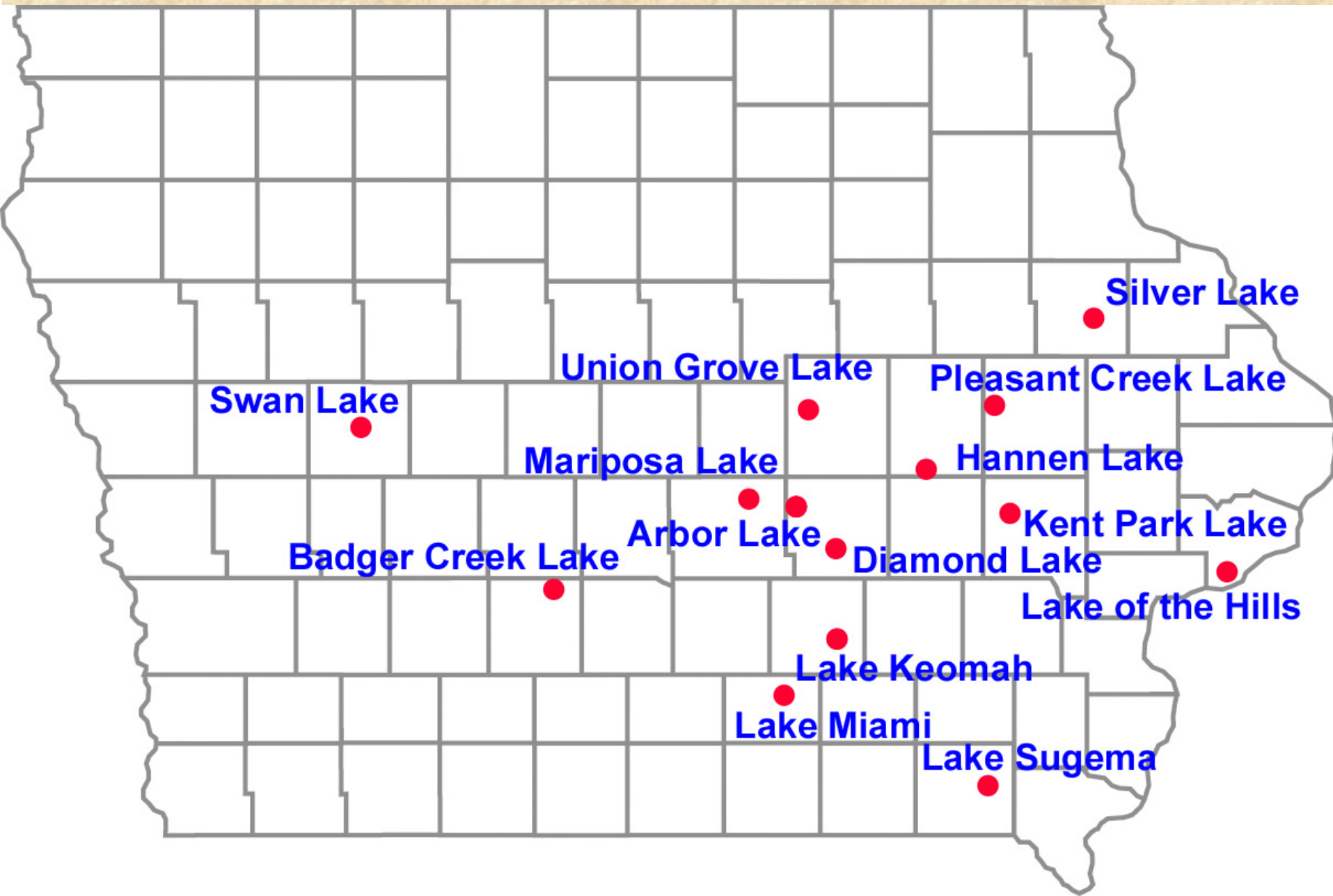
LRP Contracted by 6/15/12

Project Name	Project Description
<i>Little River Lake*</i>	<i>In-lake silt basin</i>
<i>Virgin Lake*</i>	<i>New outlet structure</i>
<i>Hawthorn Lake*</i>	<i>Water control structures</i>
<i>Lake Wapello*</i>	<i>Water control structures</i>
<i>Easter Lake*</i>	<i>Management Plan</i>
Lake Darling	Phase 3 Construction
Prairie Rose Lake	Containment site construction/spillway
Clear Lake	Containment site tile repair
Lost Island Lake	Electric fish barrier
Lost Grove Lake	Road risers along Utica Ridge Rd
Central Park Lake	Containment site purchase/watershed
Deer Creek Lake	Geophysical investigation

Proposed FY13 Budget

Project Name	Description	Budget
Storm Lake	Dredging / Little Storm Lake	\$1,200,000
Clear Lake	SEC 206 Ventura Marsh / Shoreline	\$100,000
Carter Lake	Management Plan Implementation	\$100,000
Administration	Engineering / Project Management	\$500,000
Five Island Lake	Dredging / Watershed Improvement	\$200,000
Lost Island Lake	Rough Fish Removal for Water Quality	\$50,000
Prairie Rose Lake	Containment site / Dredging	\$1,300,000
Lake Assessment	Restoration action plans / monitoring	\$100,000
Black Hawk Lake	Watershed Improvement	\$150,000
Minors	(e.g. Central Park L., Hickory Grove L., Kent Park L., L. Miami, Swan L.)	\$250,000
Shallow Lakes	Water Quality Improvements	\$100,000
IA Great Lakes	Watershed Water Quality Improvement	\$250,000
Lake Icaria	Wetland Repair	\$100,000
Lake Manawa	Dredging Phase 1 / Watershed	\$1,059,000
Total		\$5,459,000

Evaluation / planning stage



For more information...

www.iowadnr.gov/water/lakerestoration/



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Potential projects

Project Name	Description	Budget
Lake Manawa	Dredging Phase 1 / Watershed	\$1,300,000
Little River Lake	Watershed Work on Public Land	\$200,000
N/S Twin Lakes	DF Study	\$150,000
Black Hawk Lake	Watershed Improvement / Containment Site	\$1,300,000
Easter Lake	Engineering / WQ Improvement	\$1,000,000
Blue Lake	Land Acquisition/Fish Barrier	\$500,000
Lake Keomah	Watershed / In-lake / Containment Site	\$1,200,000
IA Great Lakes	Hottes Wetland Development	\$150,000
Swan Lake	Wetland Development / Land Acquisition	\$900,000
Twelve Mile Lake	Wetland Design and Construction	\$300,000
Center Lake	Urban Storm Water Control	\$150,000
Pleasant Creek Lake	Shoreline / Watershed evaluation	\$125,000
Silver Lake	Palo Alto Co. - Fish Barrier/Watershed	\$250,000
Silver Lake	Dickinson Co. - Watershed Assessment	\$100,000





Serpentine channel excavation at the inlet of Little Storm Lake



**Ventura Marsh -
New 20,000 gpm pump station**

Economic Investment - Lost Grove Lake (Scott)



Building the stilling basin



Construction of the fishing jetty